

A)

10 20 30 40 50 60

VH 14f7 QVQLQSGNELAKPGASMKMSCRASGYSETSYWIHWLKQREDQGEWIGYIDPATAYTESNQKF

VH human .T..V...A.VR....VRV..K...T.IDSY...IR.A.GH...V.W.N.NSGG.NYAPR.

VH 14f7hTQ...A.VV....VRV.....R.A.G....V.....

70 80 90 100 110

VH 14f7 KDKAILTADRSSNTAFMYLNSLTSEDSAVIYCARESP---RLRRGIYYAMDYWGOGTTVTVSS

VH human QGRVTM.R.A.FS..Y.D.R..R.D....F...KSD.FWSDYYNFD.S.TL.V.....

VH 14f7hT---

B)

10 20 30 40 50 60

VK 14f7 DLVLVTQSPATLSVTPGDSVSFSCRASQSTSNNEHWYQORTHESPRELIKVASQSTSGTTPSRESG

VK human .IQM.Z...SS..ASV.BR.TIT....ZT...SY.B..ZZKPGKA.B...YA..BLH..V.....

20 VK 14f7hTRTHE.....V.....

70 80 90 100

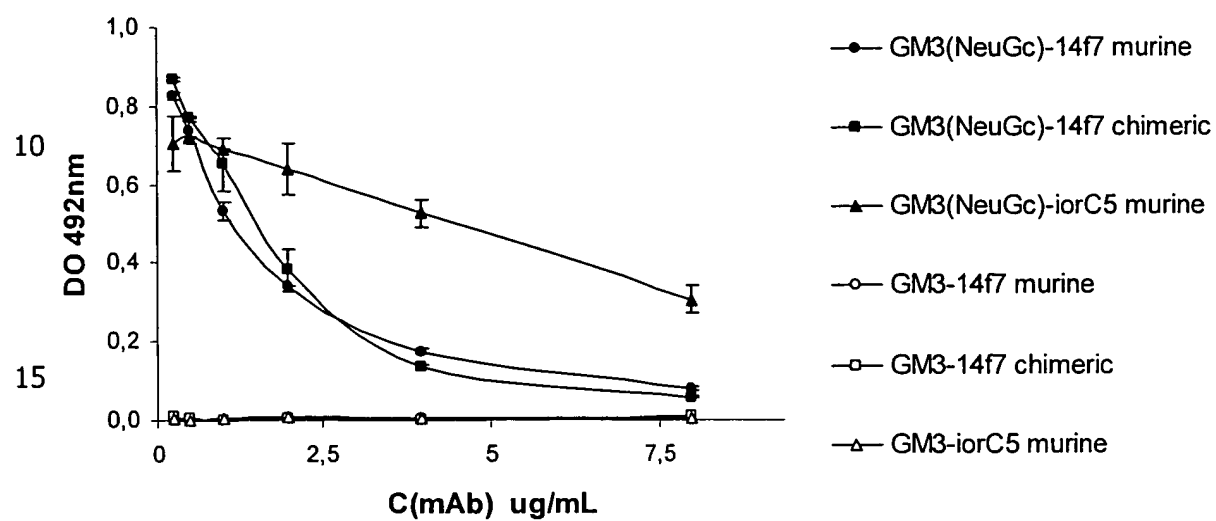
VK 14f7 SGSGTDFTLISIISVETEDFGMYFCQOSNRWPLTFGAGTKLELKRA

VK humanB...FT.S.LZPZB.AT.Y.ZZ.Y.S.T...Z..R.ZI...

25 VK 14f7hT

FIGURE 2:

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FIGURE 3:

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B16F



B16F1 +



B16F1+14

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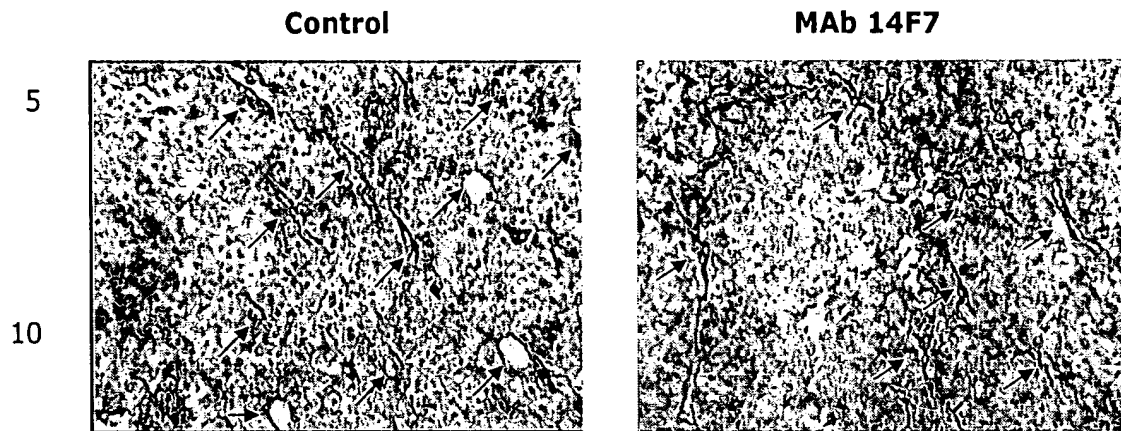
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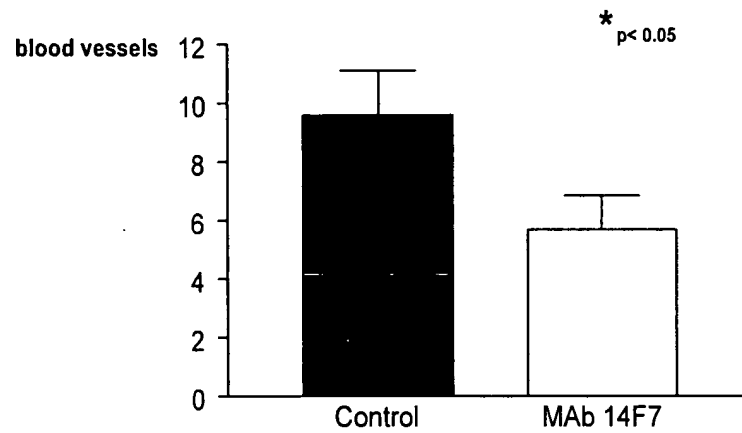
FIGURE 4:

A)



B)

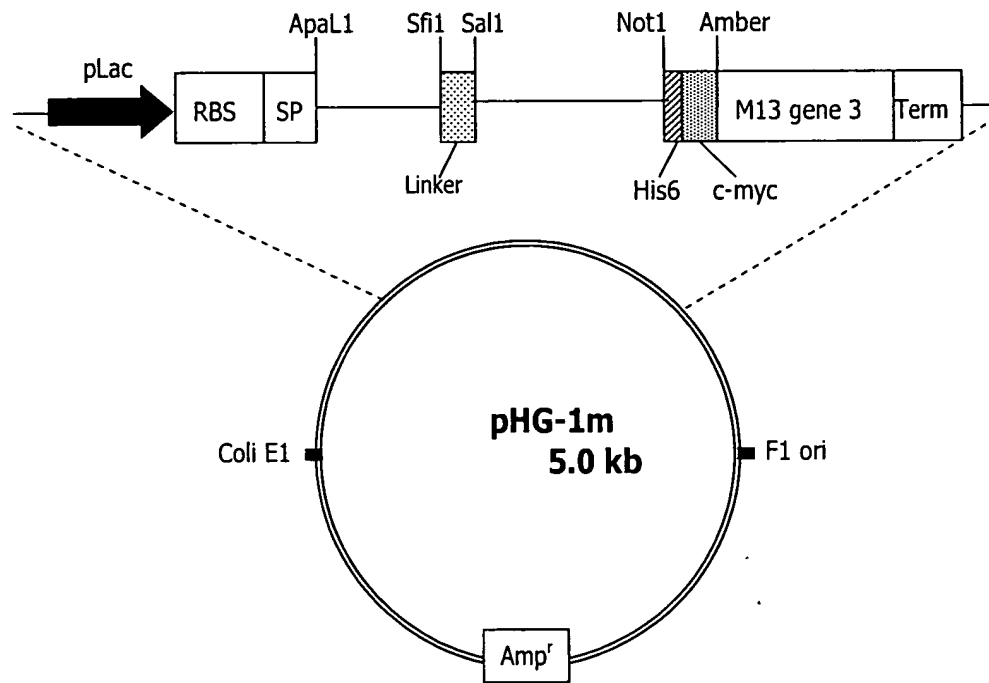
15



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FIGURE 5:

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	fr1	CDR1
14F7 Mab	D L V L T Q S P A T L S V T P G D S V S F S C	R A S Q S V S S I S N N L H
2Am scFv	. I . M F . . . S . A . S L . Q R A T I S V S S . S Y S N Y M .
3Fm scFv	. I Q M . . T . S . . A S L . . R A T I S Y . N .
7Bhk scFv	. I Q M . . T . S . . A S V . . R . T I T S F . N .
7Ah1 scFv	Q S S V V . . P . S . A . G G . . Q . L T I G Y . H V S S
2RHI scFv	S S S E L . . D . . V . . A L . . Q T . R I T L R . Y A S S

5

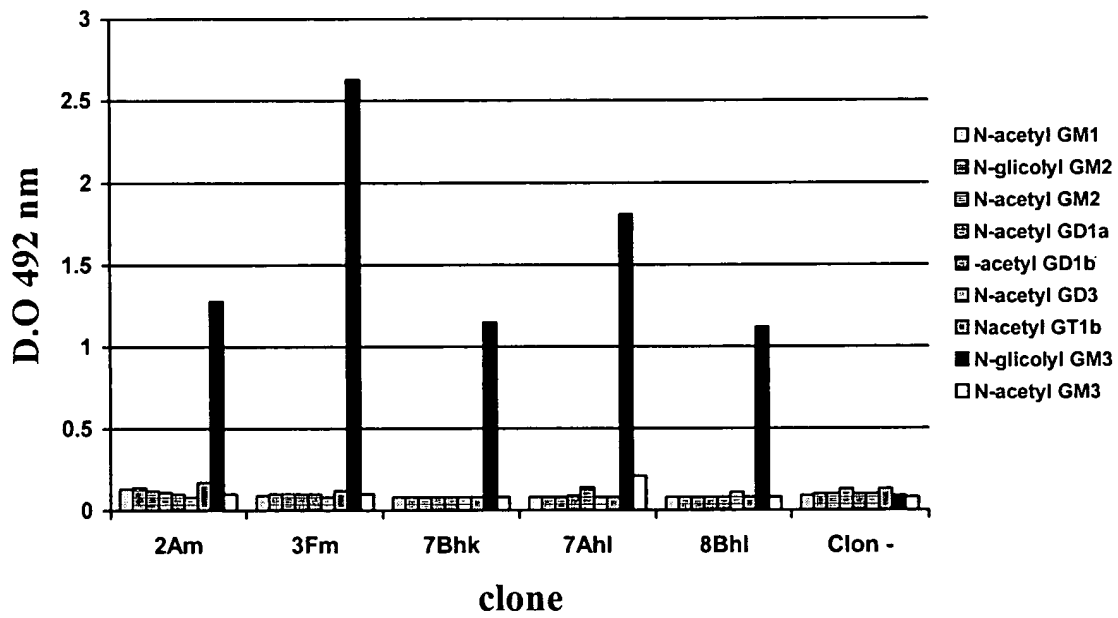
[illegible]

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fr 3										CDR3										fr 4															
T	L	S	I	A	V	E	T	E	D	F	G	M	Y	F	C	Q	Q	S	N	R	R	W	P	L	T	F	G	A	G	T	K	L	E	L	K
.	.	N	.	H	P	.	E	.	.	A	A	T	.	Y	.	.	H	.	R	D	V
S	.	T	S	N	L	Q	P	.	.	I	A	T	G	.	T	T	L	.	P
S	.	T	T	S	S	L	Q	Q	A	.	A	A	.	Y	.	.	.	G	Y	T	T	Q
S	.	T	V	S	S	G	L	Q	Q	A	.	E	A	V	.	S	S	S	Y	A	G	S	S	.	V	.	.	G
S	.	T	T	G	A	Q	Q	A	.	E	A	D	.	Y	.	N	S	R	D	S	S	G	N	H	V	V	.	G

FIGURE 7:

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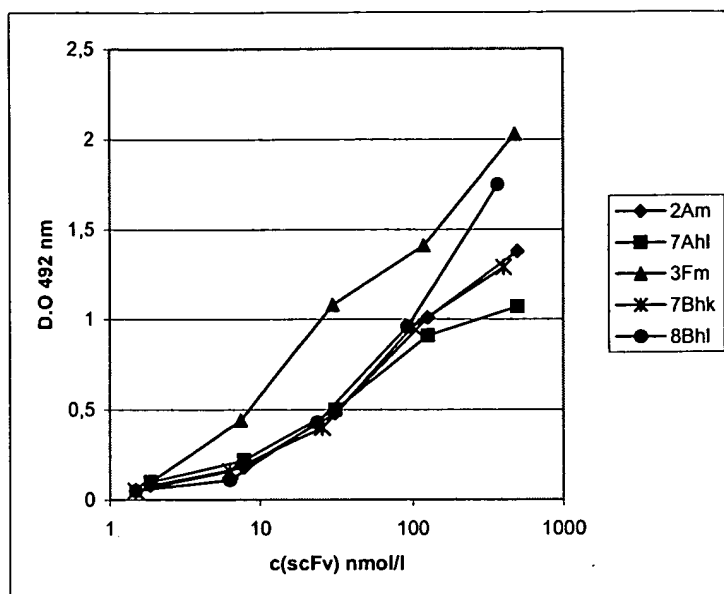
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FIGURE 8.

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